

PATENT ABSTRACTS OF JAPAN

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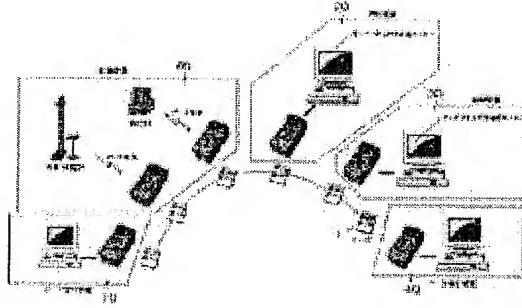
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(54) METHOD, PROGRAM AND SYSTEM FOR INQUIRY

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method, a program and a system for inquiries, which electronically records inquiry information easily and surely and which is easy also for a patient to use.

SOLUTION: The inquiry method allows the patient to answer to question items set in advance. A card issued to each patient is set to a card reader/writer to read patient information from the card. Next, in the case of the first examination, a display device displays the question items for selecting and entering and in the case of re-examination, the display device displays items answered last time in a previously selected or written state. Next, the answers of the patient are inputted to an input device. The process of displaying questions and the process of inputting answers are repeated until coming to the final inquiry item and after inputting to the final question item is completed, inquiry information obtained by totaling the respective answers of the patient is stored in the card by the reader and writer.



CLAIMS

[Claim(s)]

[Claim 1]It is the oral consultation method that a medical examinee answers to a question item set up beforehand, Set to a card reader writer a card published for every medical examinee, and medical examinee information is read from a card, Subsequently, it is made to display on a display device so that a question item can be chosen or filled in in the case of the first medical examination, Change into the state where it was chosen or entered beforehand an item which was answered to last time in re-examination, and it is made to display on a display device, Subsequently, input a medical examinee's reply into an input device, and a process of displaying a question, and a process of inputting a reply are repeated until it becomes the last question item, An oral consultation method storing in a card oral consultation information which totaled each a medical examinee's reply by a card reader writer after an input to the last question item is completed.

[Claim 2]An oral consultation method according to claim 1 using a touch panel as an input device.

[Claim 3]An oral consultation method according to claim 1 using a bar code as an input device.

[Claim 4]An oral consultation method according to any one of claims 1 to 3 using a rewrite card as a card.

[Claim 5]An oral consultation method according to any one of claims 1 to 4 of setting to a card reader writer a card which memorized oral consultation information, and displaying a medical examinee's reply on a display device.

[Claim 6]Oral consultation information is copied to memory storage which set a card which memorized oral consultation information to a card reader writer connected to a computer network, and was connected to a computer network, An oral consultation method according to any one of claims 1 to 4 of displaying a medical examinee's reply on a display device based on copied oral consultation information.

[Claim 7]An oral consultation method according to any one of claims 5 to 6 of combining with measuring information accumulated separately and displaying oral consultation information on a display device.

[Claim 8]An oral consultation method according to any one of claims 5 to 6 of displaying a decided result on a display device using a determining device which compares and judges measuring information and oral consultation information which were accumulated separately.

[Claim 9]An oral consultation method according to claim 8 of printing a decided result to a rewrite card.

[Claim 10]A step which reads medical examinee information from a card which is an oral consultation program which a medical examinee answers that it is to a question item set up beforehand, and was set to a card reader writer, A step which is displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, changes into the state where it was chosen or entered beforehand an item which was answered to last time in re-examination, and is displayed on a display device, An oral consultation program

having a step which stores in a card oral consultation information which totaled each a medical examinee's reply by a card reader writer after an input to the last question item is completed.

[Claim 11]A card issuing device provided with a card reader writer which is an oral consultation system by which a medical examinee answers to a question item set up beforehand, and publishes a card for every medical examinee, A card reader writer which stores in a card oral consultation information which read medical examinee information from a card published for every medical examinee, and totaled a medical examinee's reply, A display device which displays a question item, an input device which inputs a reply, and a step displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, An oral consultation system provided with a processing unit which performs a step which changes into the state where it was chosen or entered beforehand an item which was answered to last time in re-examination, and displays it on a display device, and a step which repeats a display of a question until it becomes the last question item.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the oral consultation method, oral consultation program, and oral consultation system which can be carried out in a medical institution, a school, a place of business, etc.

[0002]

[Description of the Prior Art]In the medical examination business performed in many a medical institution, schools, places of business, etc., an official in charge measures at the time of Measurement Division of height, weight, blood pressure, etc., the measuring result is written down in paper, and data input is carried out to the computer after that. Although means to reduce the input loads of a computer with an OCR paper or an answer sheet paper may be taken, since there are problems, such as erroneous recognition, it is reconfirming in the stage registered into a computer.

[0003]In some medical institutions, there is also a case which has introduced the equipment which transmits to a computer, without posting and reinputting a measurement result using media, such as construction of the network which transmits the result at the time of Measurement Division to a computer directly, or a card. However, in these cases, management and management of oral consultation information are done in the system different from measuring information. The paper or the OCR paper which wrote questionnaire entries, such as clinical recording, condition of disease, and taste, was prepared, and the medical examinee has entered. In many medical institutions, since oral consultation information is dealt with with the paper medium also when it is not dealt with as data which registers oral consultation information into a computer and registers, the time and effort inputted into a computer is required, and it is necessary to reconfirm so that an erroneous input may not be carried out.

[0004]

[Problem to be solved by the invention]However, the measuring information and the oral consultation information which are dealt with in a medical examination are important personal medical information, and what it is missing or is taken in the stage of managing and managing a system is not allowed. Therefore, it is necessary using a means without the possibility of reinput or erroneous recognition to build the system which totals measuring information and oral consultation information.

[0005]young and old of both sexes -- since a broad person consults, it shall be easy to use a same system for anyone

[0006]Then, this invention is easy and sure, and an object of this invention is to provide the oral consultation method, oral consultation program, and oral consultation system which are easy to use also for a medical examinee. [of oral consultation information] [electronic]

[0007]

[Means for solving problem]This invention is constituted as follows, in order to attain the above-mentioned purpose.

[0008]According to the 1st mode of this invention, it is the oral consultation method that a medical examinee answers to the question item set up beforehand, Set to a card reader writer the card published for every medical examinee, and medical examinee information is read from a card, Subsequently, it is made to display on a display device so that a question item can be chosen or filled in in the case of the first medical examination, Change into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and it is made to display on a display device, Subsequently, input a medical examinee's reply into an input device, and the process of displaying a question, and the process of inputting a reply are repeated until it becomes the last question item, After the input to the last question item is completed, the oral consultation method of storing in a card the oral consultation information which totaled each a medical examinee's reply by a card reader writer is provided.

[0009]According to the 2nd mode of this invention, the 1st mode using a touch panel as an input device is provided with an oral consultation method of a description.

[0010]According to the 3rd mode of this invention, the 1st mode using a bar code as an input device is provided with an oral consultation method of a description.

[0011]According to the 4th mode of this invention, any 1-3rd [using a rewrite card as a card] one modes are provided with an oral consultation method of a description.

[0012]According to the 5th mode of this invention, any 1-4th one modes that sets to a card reader writer a card which memorized oral consultation information, and displays a medical examinee's reply on a display device are provided with an oral consultation method of a description.

[0013]According to the 6th mode of this invention, oral consultation information is copied to memory storage which set a card which memorized oral consultation information to a card reader writer connected to a computer network, and was connected to a computer network, Any 1-4th one modes that displays a medical examinee's reply on a display device based on copied oral consultation information are provided with an oral consultation method of a description.

[0014]According to the 7th mode of this invention, any 5-6th one modes that combines with measuring information accumulated separately and displays oral consultation information on a display device are provided with an oral consultation method of a description.

[0015]According to the 8th mode of this invention, any 5-6th one modes that displays a decided result on a display device are provided with an oral consultation method of a description using a determining device which compares and judges measuring information and oral consultation information which were accumulated separately.

[0016]According to the 9th mode of this invention, the 8th mode that prints a decided result to a rewrite card is provided with the oral consultation method of a description.

[0017]The step which reads medical examinee information from the card which is an oral consultation program which a medical examinee answers that it is to the question item set up beforehand according to the 10th mode of this invention, and was set to the card reader writer, The step which is displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, changes into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and is displayed on a display device, After the input to the last question item is completed, an oral consultation program provided with the step which stores in a card the oral consultation information which totaled each a medical examinee's reply by a card reader writer is provided.

[0018]A card issuing device provided with the card reader writer which is an oral consultation system by which a medical examinee answers to the question item set up beforehand according to the 11th mode of this invention, and publishes a card for every medical examinee, The card reader writer which stores in a card the oral consultation information which read medical examinee information from the card published for every medical examinee, and totaled a medical examinee's reply, The display device which displays a question item, the input device which inputs a reply, and the step displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, An oral consultation system provided with the processing unit which performs the step which changes into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and displays it on a display device, and the step which repeats the display of a question until it becomes the last question item is provided.

[0019]

[Mode for carrying out the invention]An embodiment of the invention is described in detail, referring to Drawings.

[0020]Drawing 1 is a mimetic diagram showing the concept of the oral consultation system concerning one embodiment of this invention. Drawing 2 is a flow chart which shows the concept of the oral consultation system concerning one embodiment of this invention. Drawing 3 is a flow chart figure explaining one embodiment of a card issuing program. Drawing 4 is a flow chart figure explaining one embodiment of an oral consultation program. Drawing 5 is a flow chart figure explaining one embodiment of a diagnostic program. Drawing 6 is a flow chart figure explaining one embodiment of a data tabulation program. Drawing 7 is a hardware organization figure which

constitutes the oral consultation system concerning one embodiment of this invention. Drawing 9 is a hardware organization figure which constitutes the oral consultation system concerning one embodiment of this invention. Drawing 10 is an explanatory view of the screen which is displayed by the display device of oral consultation equipment by execution of an oral consultation program in the case of the first medical examination. Drawing 11 is an explanatory view of the screen which is displayed by the display device of oral consultation equipment by execution of an oral consultation program in re-examination. the inside of a figure, and 1 -- as for diagnostic equipment and 40, a card issuing device and 20 are [a hospital mission critical system and 60] metering devices a data tabulation device and 50 oral consultation equipment and 30 a card and 10.

[0021]An oral consultation system of this invention is provided with the following.

A card issuing device which is an oral consultation system by which a medical examinee answers to a question item set up beforehand, and was provided with a card reader writer which publishes a card for every medical examinee.

A card reader writer which stores in a card oral consultation information which read medical examinee information from a card published for every medical examinee, and totaled a medical examinee's reply.

A display device which displays a question item.

An input device which inputs a reply, and a step displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, A processing unit which performs a step which changes into the state where it was chosen or entered beforehand an item which was answered to last time in re-examination, and displays it on a display device, and a step which repeats a display of a question until it becomes the last question item.

[0022]Here, a case where an oral consultation system of this invention is used in medical institutions, such as a hospital, is made into an example, and it explains.

[0023]A card issuing process for an oral consultation system in one embodiment of this invention to record a variety of information, Mainly in an oral consultation process and a diagnostic process, it is used among an embodiment to which each process of an oral consultation process of answering to a question of clinical recording, condition of disease, taste, etc., a diagnostic process of diagnosing whether a medical practitioner being healthy, and a data total process of transmitting oral consultation information to a hospital mission critical system is carried out in order. It may be made to carry out a measurement step which measures height, weight, blood pressure, etc. before oral consultation or to the back.

[0024]Here, a card issuing process is carried out using a card issuing device. An oral consultation process is performed using oral consultation equipment. A diagnostic process is performed using diagnostic equipment. A data total process is performed using a data tabulation device. A measurement step is performed using a metering device.

[0025]A card issuing device comprises a central processing unit, a card reader writer, a display device, and memory storage at least. A card reader writer, a display device, and memory storage

are connected to a central processing unit, respectively, and the operation is controlled by a central processing unit.

[0026]As a card, what a magnetic card, an IC card, etc. can record a variety of information, and can be reproduced is used. It may be made to use a rewrite card which can print a variety of information to a card face and in which a medical examinee can check the contents easily. One card (henceforth a medical examination card) is distributed to those [one / each] who undergo a medical examination (henceforth a medical examinee), and on each card. Measuring information, such as oral consultation information, including medical examinee information, including a medical examinee name, a consultation day, a consultation number, sex, etc., clinical recording, condition of disease, taste, etc., height, weight, and blood pressure, is written in and used.

[0027]A central processing unit is good to constitute from a CPU etc.

[0028]A card reader writer is equipment which reads a variety of information which recorded a variety of information on a card, and was recorded on a card. As a card reader writer, a ten key is connected and what has come to be able to carry out data input if needed may be used. A thing provided with memory storage which saves a variety of information read from a card may be used.

[0029]A display device is good to use CRT, LCD, etc.

[0030]Memory storage is good to use memories and hard disks, such as RAM. A memory loads and memorizes program manipulation programs, such as OS and application, and data required for processing from a hard disk drive at the time of a system startup. It uses in order to memorize a variety of information. A hard disk drive is because OS for controlling equipment, an application program, and other required data are stored. It uses in order to record a variety of information. A card issuing program etc. are stored in memory storage.

[0031]A card issuing device is good to make it connected to a hospital mission critical system which is accumulating medical examinee information via a computer network. When not connected to a hospital mission critical system, medical examinee information etc. are stored in memory storage of a card issuing device.

[0032]Oral consultation equipment comprises a central processing unit, a card reader writer, a display device, an input device, and memory storage at least. A card reader writer, a display device, an input device, and memory storage are connected to a central processing unit, respectively, and the operation is controlled by a central processing unit.

[0033]Oral consultation is asking a patient the present condition, an anamnesis, family history, etc., in order to acquire a key of diagnosis. Oral consultation equipment displays on a screen of a display device a question item beforehand memorized by memory storage, and it urges inputting a reply to a question with an input device to it.

[0034]There are a touch panel, a keyboard, a mouse, etc. as an input device. If a transparent touch panel is especially constituted in piles in a display device, since it can input by displaying a choice of a reply on a display device, touching it lightly and choosing it with a fingertip, a pen, etc., it is suitable. Even if it uses a bar code as an input device, it can input easily and is suitable. That is, a paper which attached a bar code for every choice of a reply is prepared, and an input of a reply can be performed by reading a bar code by a bar code reader.

[0035]A central processing unit, a card reader writer, a display device, and memory storage are good to constitute like a card issuing device. An oral consultation program, a question item, etc. are stored in memory storage. A step displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, when a central processing unit executes an oral consultation program, A step which changes into the state where it was chosen or entered beforehand an item which was answered to last time in re-examination, and displays it on a display device, and a step which repeats a display of a question until it becomes the last question item are performed.

[0036]Oral consultation equipment is good to make it connected to a hospital mission critical system which is accumulating oral consultation information last time via a computer network. When not connected to a hospital mission critical system, oral consultation information etc. are stored in memory storage of oral consultation equipment last time.

[0037]Diagnostic equipment comprises a central processing unit, a card reader writer, a display device, an input device, and memory storage at least. A card reader writer, a display device, an input device, and memory storage are connected to a central processing unit, respectively, and the operation is controlled by a central processing unit.

[0038]Diagnosis is judging whether a medical examinee being healthy based on a result of oral consultation, etc. A medical practitioner is going to face diagnosing, arrange a variety of information about a medical examinee, and provide a medical practitioner with diagnostic equipment.

[0039]A central processing unit, a card reader writer, a display device, an input device, and memory storage are good to constitute like oral consultation equipment. A diagnostic program etc. are stored in memory storage.

[0040]Diagnostic equipment is good to make it connected to a hospital mission critical system which is accumulating oral consultation information before last time, and measuring information via a computer network. When not connected to a hospital mission critical system, oral consultation information before last time, measuring information, etc. are stored in memory storage of diagnostic equipment.

[0041]A data tabulation device comprises a central processing unit, a card reader writer, a display device, an input device, and memory storage at least. A card reader writer, a display device, an input device, and memory storage are connected to a central processing unit, respectively, and the operation is controlled by a central processing unit.

[0042]A data tabulation device is because it puts in a database in order to transmit the variety of information recorded and accumulated in the card to the mission critical system of a hospital and to use for future medical examinations.

[0043]A central processing unit, a card reader writer, a display device, and memory storage are good to constitute like oral consultation equipment etc. A data tabulation program etc. are stored in memory storage.

[0044]A data tabulation device is good to make it connected to a hospital mission critical system via a computer network.

[0045]Next, the oral consultation method is explained.

[0046]The oral consultation method of this invention is the oral consultation method that a medical examinee answers to the question item set up beforehand. Set to a card reader writer the card published for every medical examinee, and medical examinee information is read from a card. Subsequently, it is made to display on a display device so that a question item can be chosen or filled in in the case of the first medical examination. Change into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and it is made to display on a display device. Subsequently, after the input to the last question item completes repeatedly the process of inputting a medical examinee's reply into an input device, and displaying a question, and the process of inputting a reply until it becomes the last question item, it is the method of storing in a card the oral consultation information which totaled each a medical examinee's reply by a card reader writer.

[0047]It precedes enforcing the oral consultation method of this invention, and it is necessary to publish a card for every medical examinee first. A card issuing device is used for issue of a card. The card issuing device can publish a card for every medical examinee by executing a card issuing program.

[0048]Drawing 3 is a flow chart which shows operation of a card issuing program. If a card issuing program is executed, "Please insert a medical examination card" will be displayed on the display device of a card issuing device (Step s1). Subsequently, a medical examinee's insertion of a card will confirm whether the card was inserted correctly (Step s3). (Step s2) When a card is not what is used by this system, or when it is inserted in the direction which cannot be written by a card reader writer and the card is not inserted correctly, it displays on a display device by making that into an error message (Step s4), and a card is discharged (Step s5).

[0049]If it is checked that the card has been inserted correctly, a card issuing device will receive medical examinee information from a hospital mission critical system (Step s6). If the medical examinee's last oral consultation information is saved at the hospital mission critical system, a card issuing device will consult the last oral consultation information (Step s7, s8).

[0050]Subsequently, a card issuing device writes in a card medical examinee information and oral consultation information which were received from a hospital mission critical system by a card reader writer (Step s9), discharges a card, and ends a card issuing (Step s10) program.

[0051]Subsequently, it moves to an oral consultation process. Oral consultation equipment is used for giving an oral consultation. Oral consultation equipment shows a medical examinee a question item by execution of an oral consultation program, and an input of a reply is urged to it.

[0052]Drawing 4 is a flow chart which shows operation of an oral consultation program. If an oral consultation program is executed, "Please insert a medical examination card" will be displayed on a display device of oral consultation equipment (Step s11). Subsequently, a medical examinee's insertion of a card will confirm whether a card was inserted correctly (Step s13). (Step s12) When a card is not inserted correctly, that is displayed on a display device (Step s14), and a card is discharged (Step s15).

[0053]If it is checked that a card has been inserted correctly, oral consultation equipment will

read medical examinee information from a card (Step s16). Subsequently, a question item is read from memory storage (Step s17).

[0054]It is confirmed whether the last oral consultation information is written in the card (Step s18). In this invention, it is judged by the existence of the last oral consultation information whether it is the first medical examination or it is re-examination. That is, if oral consultation information is not inputted into a hospital mission critical system last time and oral consultation information is not recorded on a card last time, it processes as the first medical examination. Therefore, if oral consultation information is not recorded last time even if it has consulted in the medical institution concerned, suppose that it treats as the first medical examination in this invention. If oral consultation information is inputted into the hospital mission critical system and recorded on the card last time, it will process as re-examination.

[0055]If the last oral consultation information is not written in a card, the medical examinee concerned is the first medical examination, and displays the 1st question and the button "which progresses to the next" on the screen of a display device (refer to Step s19 and drawing 10). A question item is related with a medical examinee's clinical recording, condition of disease, taste, etc., and usually displays one item of thing made by the medical examinee by oral or letter as oral consultation. It is good to display the reply to a question item on a screen simultaneously as a choice. By showing the candidate of a reply as a choice to a medical examinee, the judgment over a question item becomes easier and a reply will be demanded from a medical examinee.

[0056]Subsequently, a medical examinee inputs the reply to the 1st question into an input device (Step s20). If the touch panel constituted so that it might put on the screen of a display device is used as an input device, a reply can be chosen only by contacting lightly an item applicable out of the reply group displayed on the screen as a choice with a fingertip, a pen, etc. Thus, the reply inputted by the touch panel is memorized by the memory storage of oral consultation equipment. The means of a reply cannot choose a reply from the reply group set up beforehand, but making it make it enter as a free sentence etc. can set it up suitably if needed.

[0057]Subsequently, a medical examinee's selection of the button "which progresses to the next" will confirm whether the next question is the last question (Step s22). (Step s21) If it is not the last question, the next question and the button "which progresses to the next" will be displayed on the screen of a display device (Step s23). The above-mentioned step is repeated until the next question turns into the last question. If the next question turns into the last question, the last question and an "end" button will be displayed on the screen of a display device (Step s24). If a medical examinee chooses the reply to the last question (Step s25) and chooses an "end" button, a medical examinee's operation will be ended (Step s26). The number of the screens which display a question may be one.

[0058]If the last oral consultation information is written in the card, the medical examinee concerned is re-examination, First, oral consultation information is received last time from the mission critical system of a hospital (Step s27), and while displaying the 1st question and the button "which progresses to the next" on the screen of a display device, the choice which answered in the last oral consultation is made into a selective state (refer to Step s28 and

drawing 11). If a reply means is an entry system of a free sentence, it will change into the state where the contents answered in the last oral consultation have been filled in. In this oral consultation, when a reply of the medical examinee to the 1st question is the same as the last reply, it chooses the button "which progresses to the next" (Step s29, 31). If it is a case index when it differs from the last reply, selection of a reply is canceled and it newly rechooses, and a reply will be inputted to an input device and the button "which progresses to the next" will be chosen (Step s29, 30, 31). If it is an entry system of a free sentence, the last reply will be eliminated or corrected, a reply will be inputted, and the button "which progresses to the next" will be chosen. Thus, the inputted reply is memorized by the memory storage of oral consultation equipment.

[0059] Subsequently, it is confirmed whether the next question is the last question (Step s32). If it is not the last question, the next question and the button "which progresses to the next" will be displayed on the screen of a display device (Step s33). The above-mentioned step is repeated until the next question turns into the last question. If the next question turns into the last question, the last question and an "end" button will be displayed on the screen of a display device (Step s34). If a medical examinee chooses the reply to the last question (Step s35, 36) and chooses an "end" button, a medical examinee's operation will be ended (Step s37).

[0060] Ending, when a medical examinee chooses an "end" button is inputted (Step s26, 37), Each reply saved at memory storage is totaled, it is written in a card by the card reader writer as oral consultation information (Step s38), a card is discharged from a card reader writer, and an oral consultation (Step s39) program is ended.

[0061] The measurement step which measures height, weight, blood pressure, etc. before oral consultation or to the back if needed is carried out. A measurement step is performed using the metering device which consists of a card reader writer connected to the measuring equipment according to the item to measure, and each measuring equipment. A metering device may be made to be connected to a hospital mission critical system via a computer network. A measurement result is recorded on a card as measuring information. When a card reader writer is not connectable with measuring equipment, it is good to record a measurement result on a card directly using the card reader writer provided with the ten key.

[0062] Subsequently, it moves to a diagnostic process. Diagnostic equipment is used for diagnosing. Diagnostic equipment presents a reply of oral consultation by execution of a diagnostic program, and supports a doctor's diagnostic business.

[0063] Drawing 5 is a flow chart which shows operation of a diagnostic program. If a diagnostic program is executed, "Please insert a medical examination card" will be displayed on a display device of diagnostic equipment (Step s41). Subsequently, insertion of a card will confirm whether a card was inserted correctly (Step s43). (Step s42) When a card is not inserted correctly, that is displayed on a display device (Step s44), and a card is discharged (Step s45).

[0064] If it is checked that a card has been inserted correctly, diagnostic equipment will read medical examinee information, oral consultation information, and measuring information from a card, and will be stored in memory storage of diagnostic equipment (Step s46).

[0065] Subsequently, it is confirmed whether the last oral consultation information is written in a card (Step s47). When the last oral consultation information is not written in a card, if measuring information before last time exists, diagnostic equipment will receive from a hospital mission critical system, and will be memorized to memory storage (Step s48). Subsequently, measuring information before medical examinee information, this oral consultation information, this time, and last time is displayed on a screen of a display device of diagnostic equipment (Step s49).

[0066] First, when the last oral consultation information is written in the card, if the measuring information before last time exists from the mission critical system of a hospital, it will be received and it will memorize to memory storage (Step s50). If there is oral consultation information before second from last time, it will receive collectively. Subsequently, the measuring information before the oral consultation information before medical examinee information, this time, and last time, this time, and last time is displayed on the screen of the display device of diagnostic equipment (Step s51).

[0067] Thus, the medical examinee information, the oral consultation information, and measuring information which were displayed on the screen of the display device of diagnostic equipment are used in order that a doctor may diagnose a medical examinee. Since oral consultation information is data-ized, it is easy to chart-ize and to display [not only displaying as a numerical value but graph-ization or]. When the oral consultation information before last time exists, it also becomes possible to display transition of a medical examinee's health condition. Thus, by managing the oral consultation information over a long period of time unitary, and displaying it, it becomes possible to support a doctor's diagnostic business powerfully. Since the oral consultation information and measuring information over a long period of time can be managed unitary and can be displayed if measuring information is combined with oral consultation information and processed, it becomes possible to support a doctor's diagnostic business much more powerfully.

[0068] If diagnosis finishes, a doctor will input a diagnostic result using the input device of diagnostic equipment (Step s52). A diagnostic result is memorized by memory storage. The diagnostic result list made to memorize beforehand is displayed on a display device, is chosen as the memory storage of diagnostic equipment from a diagnostic result list, and it may be made for the input of a diagnostic result to input it into it.

[0069] If the input of a diagnostic result finishes, the diagnostic result saved at memory storage will be written in a card by the card reader writer as diagnostic information (Step s53), a card will be discharged from a card reader writer, and a diagnostic program (Step s54) will be ended.

[0070] Oral consultation information is copied to the memory storage which set the card which memorized oral consultation information to the card reader writer connected to the computer network, and was connected to the computer network, and it may be made to display a medical examinee's reply on a display device based on the copied oral consultation information.

[0071] A decided result may be displayed on a display device using the determining device which compares and judges oral consultation information and measuring information. Namely, oral consultation information, measuring information or oral consultation information, and measuring information are compared, It can be considered as support of a medical practitioner's diagnosis by

selecting from the various advice to the medical examinee who prepared beforehand according to the result of comparison, considering it as a decided result, and displaying on the screen of the display device of diagnostic equipment. The service to a medical examinee can be raised by adopting a rewrite card as a card and printing a decided result on a card.

[0072] Subsequently, it moves to a data total process. A data tabulation device is used for performing a data total. A data tabulation device totals the variety of information recorded on the card by execution of the data tabulation program, and performs data transfer to a hospital mission critical system.

[0073] Drawing 6 is a flow chart which shows operation of a data tabulation program. If a data tabulation program is executed, "Please insert a medical examination card" will be displayed on the display device of a data tabulation device (Step s61). Subsequently, insertion of a card will confirm whether the card was inserted correctly (Step s63). (Step s62) When the card is not inserted correctly, that is displayed on a display device (Step s64), and a card is discharged (Step s65).

[0074] If it is checked that the card has been inserted correctly, a data tabulation device will read medical examinee information, measuring information, oral consultation information, and diagnostic information from a card one by one, and will be stored in the memory storage of a data tabulation device (step s66-69).

[0075] Subsequently, a data tabulation device transmits each information on medical examinee information, oral consultation information, measuring information, and diagnostic information memorized by memory storage to a hospital mission critical system (Step s70).

[0076] If transmission of each information finishes, a card will be discharged from a card reader writer and a data (Step s71) tabulation program will be ended.

[0077] Although the upper embodiment explained that a medical examinee operated a card issuing device etc., the auxiliary personnel of the medical examinee instead of a medical examinee or the auxiliary personnel of a hospital may be made to operate a card issuing device etc. instead of a medical examinee.

[0078] It is also possible for a data total process to be skipped and for it to be made to perform a data total at the last of a diagnostic process using diagnostic equipment.

[0079] The above-mentioned embodiment explained on the assumption that a card issuing device, oral consultation equipment, diagnostic equipment, and a data tabulation device were connected to a hospital mission critical system by the computer network, respectively, but. A card issuing device, oral consultation equipment, diagnostic equipment, and a data tabulation device may be stand-alone equipment which is not connected to the computer network, respectively. In that case, it is good to transmit the variety of information currently beforehand recorded on the hospital mission critical system to each above-mentioned equipment.

[0080] When what used the card as a system for acquiring measuring information is adopted according to the oral consultation system of this invention, Since it will already have a card issuing device, diagnostic equipment, and a data tabulation device (refer to drawing 8), if an oral consultation system is added further and employed in one, Since the equipment added with

addition of an oral consultation system requires only oral consultation equipment (refer to drawing 9), it is easy to unify a system, and since having equipment doubly is lost, it is economical. [0081]

[Effect of the Invention] Since this invention consists of the above-mentioned composition, it has the following effects.

[0082] The oral consultation method of this invention is the oral consultation method that a medical examinee answers to the question item set up beforehand, Set to a card reader writer the card published for every medical examinee, and medical examinee information is read from a card, Subsequently, it is made to display on a display device so that a question item can be chosen or filled in in the case of the first medical examination, Change into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and it is made to display on a display device, Subsequently, input a medical examinee's reply into an input device, and the process of displaying a question, and the process of inputting a reply are repeated until it becomes the last question item, Since the oral consultation information which totaled each a medical examinee's reply was constituted for a card to be made to memorize by a card reader writer after the input to the last question item was completed, electronic record of oral consultation information is easy and trustworthy, and is the method of being easy to use also for a medical examinee.

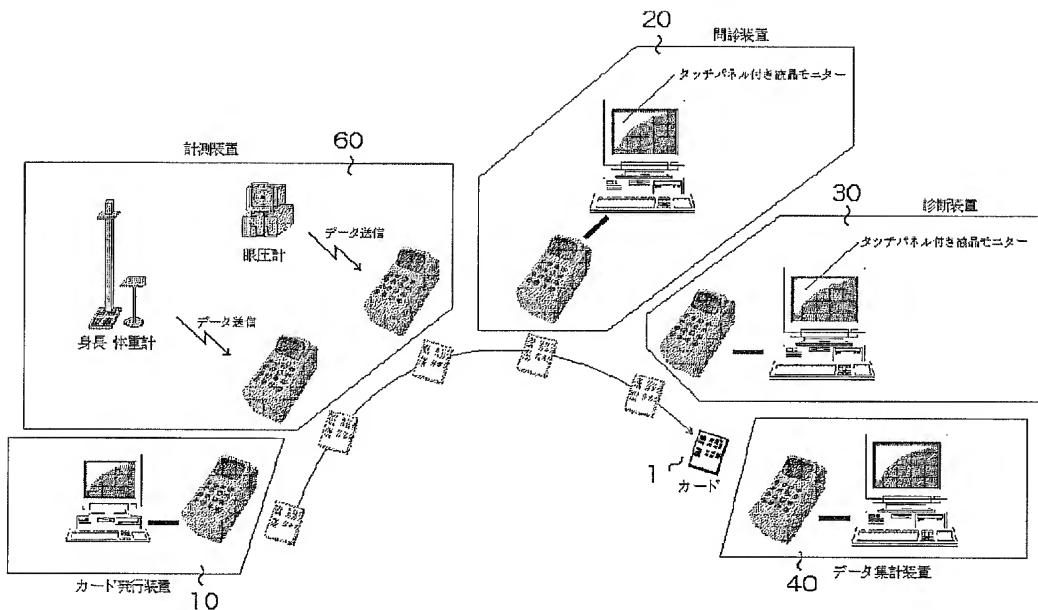
[0083] The step which reads medical examinee information from the card which the oral consultation program of this invention is an oral consultation program which a medical examinee answers that it is to the question item set up beforehand, and was set to the card reader writer, The step which is displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, changes into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and is displayed on a display device, Since it constituted as it had the step which stores in a card the oral consultation information which totaled each a medical examinee's reply by a card reader writer after the input to the last question item was completed, Electronic record of oral consultation information shall be easy and trustworthy, and it shall be easy to use it also for a medical examinee.

[0084] A card issuing device provided with the card reader writer which the oral consultation system of this invention is an oral consultation system by which a medical examinee answers to the question item set up beforehand, and publishes a card for every medical examinee, The card reader writer which stores in a card the oral consultation information which read medical examinee information from the card published for every medical examinee, and totaled a medical examinee's reply, The display device which displays a question item, the input device which inputs a reply, and the step displayed on a display device so that a question item can be chosen or filled in in the case of the first medical examination, The step which changes into the state where it was chosen or entered beforehand the item which was answered to last time in re-examination, and is displayed on a display device, Since it constituted as it had the processing unit which performs the step which repeats the display of a question until it becomes the last question item,

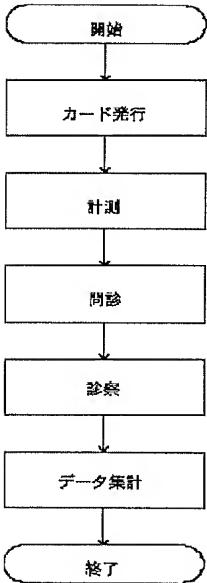
electronic record of oral consultation information is easy and trustworthy, and it is easy to use it also for a medical examinee.

DRAWINGS

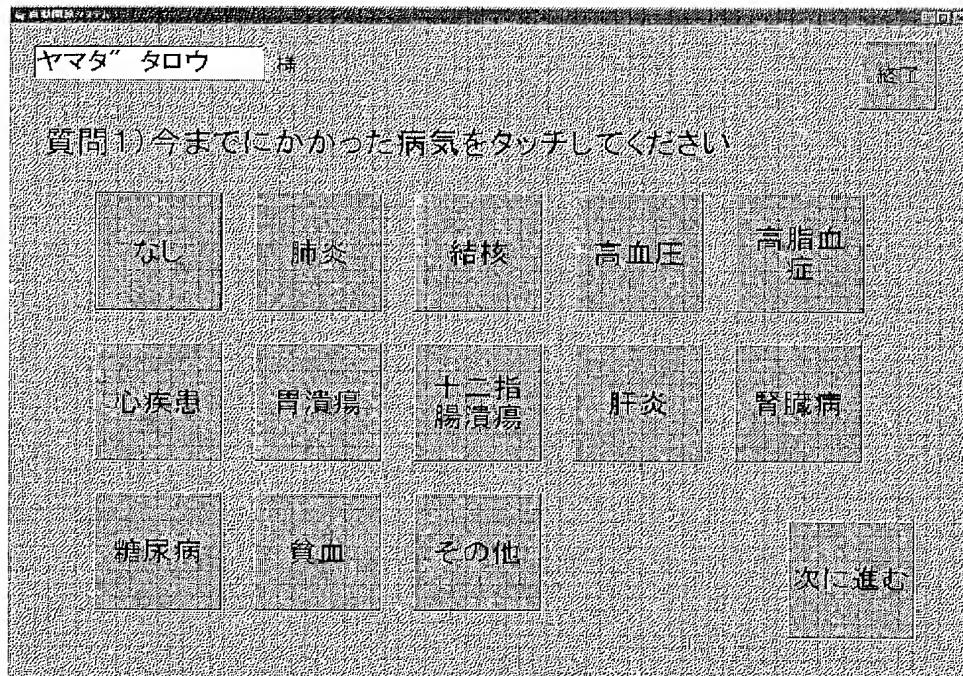
[Drawing 1]



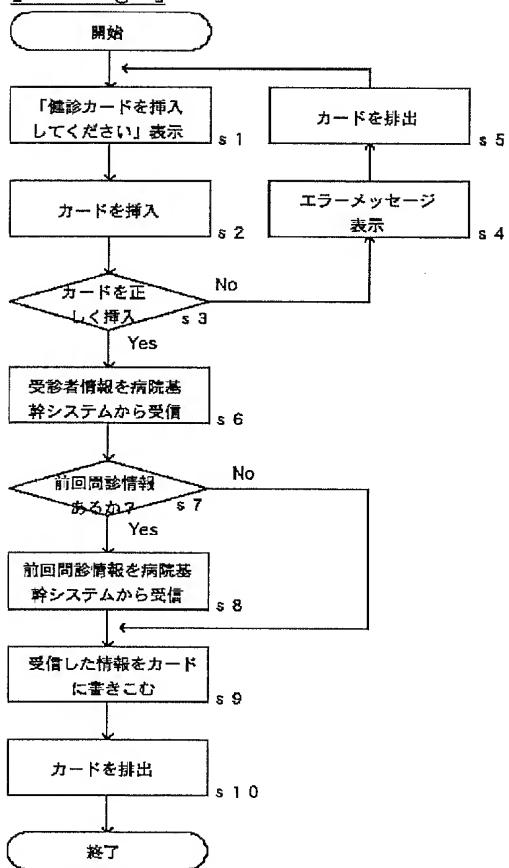
[Drawing 2]



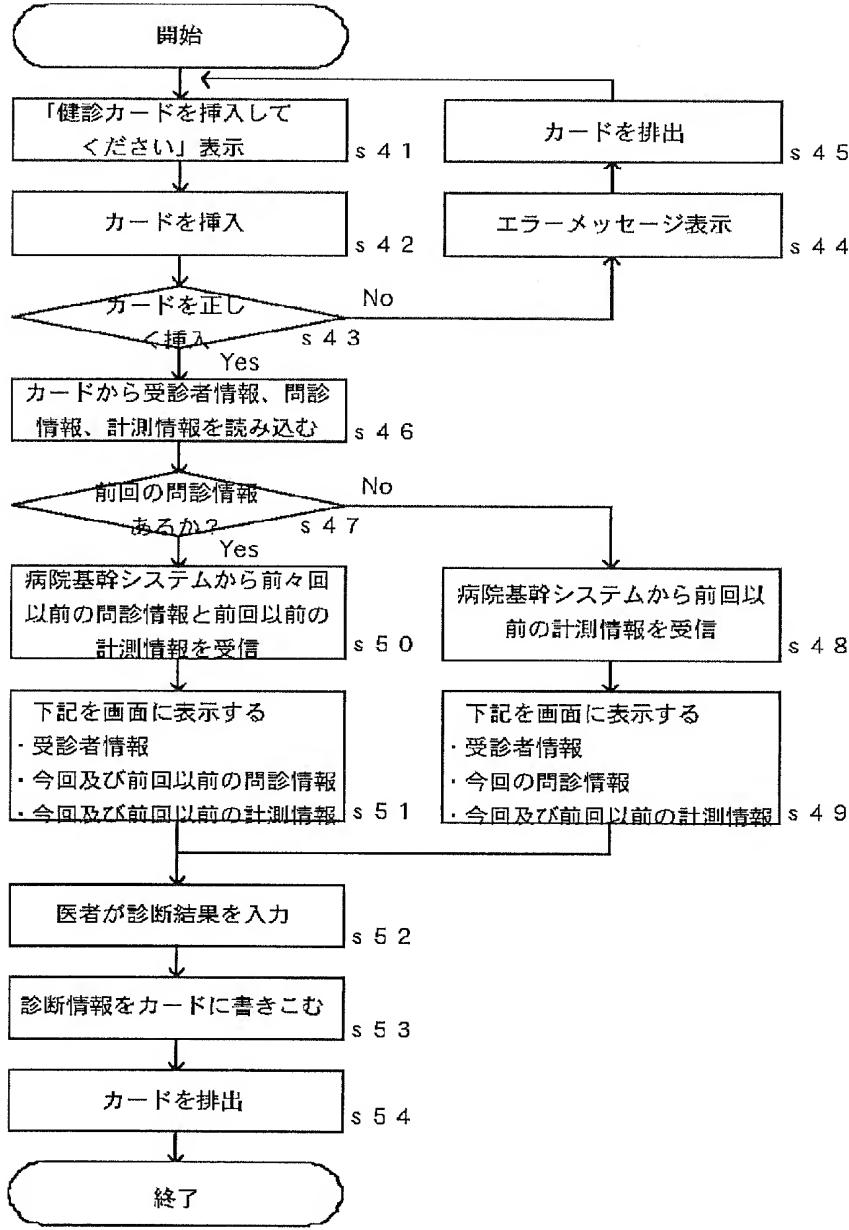
[Drawing 10]



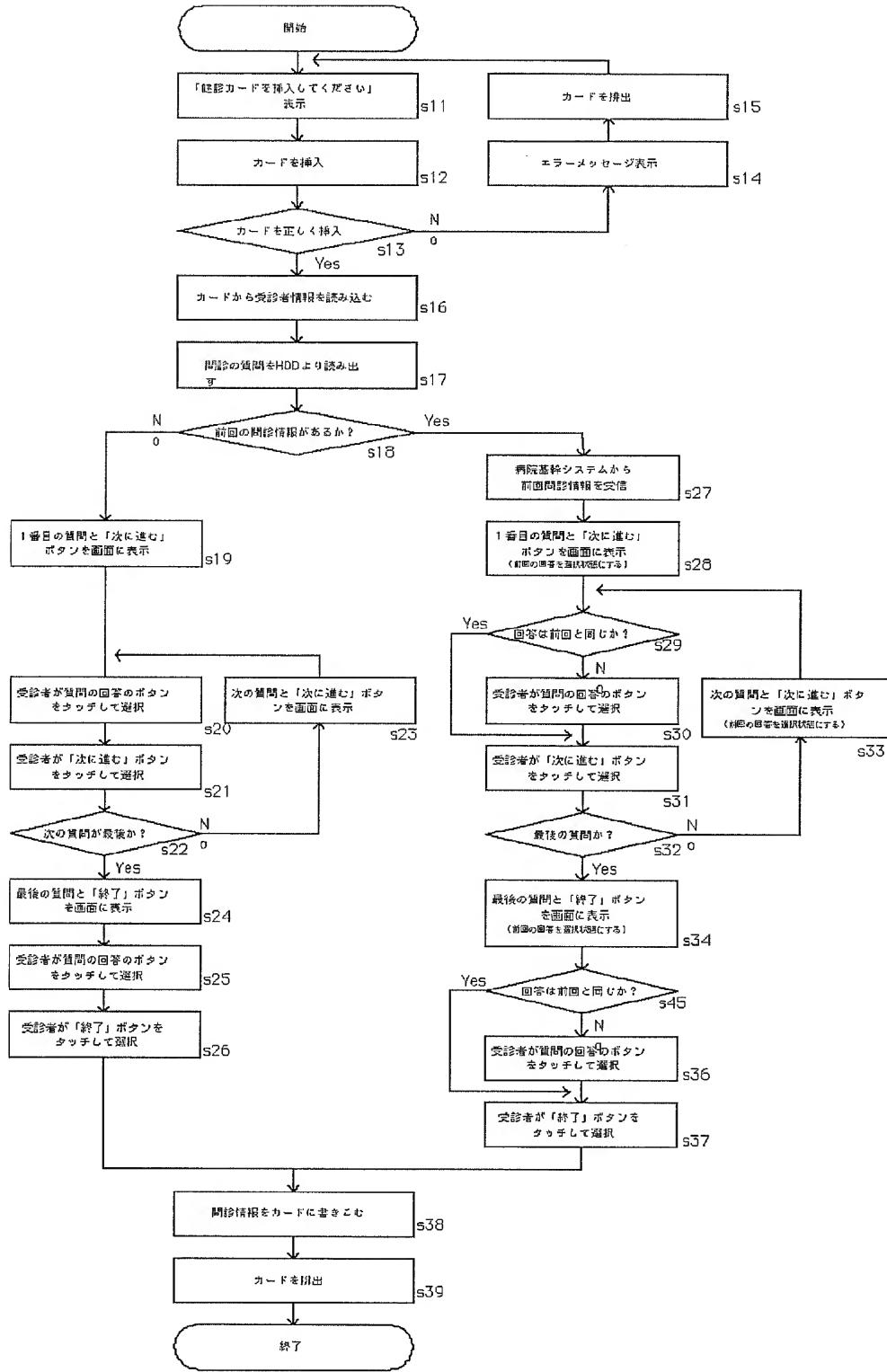
[Drawing 3]



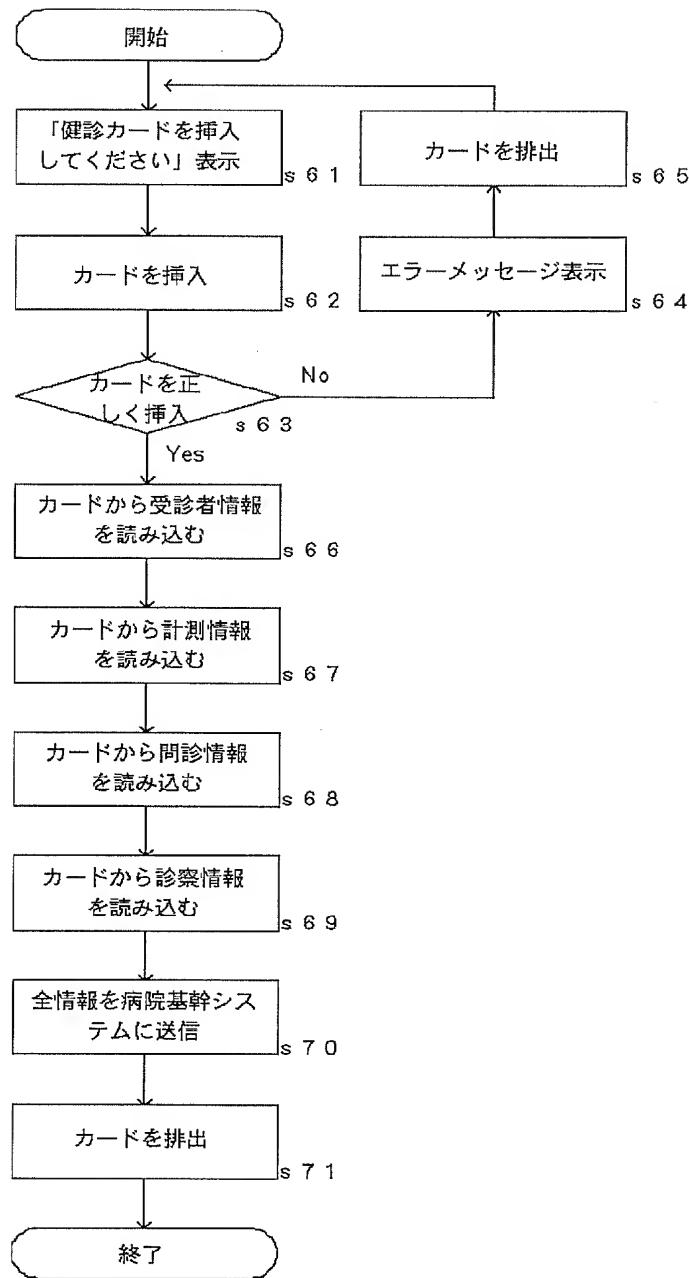
[Drawing 5]



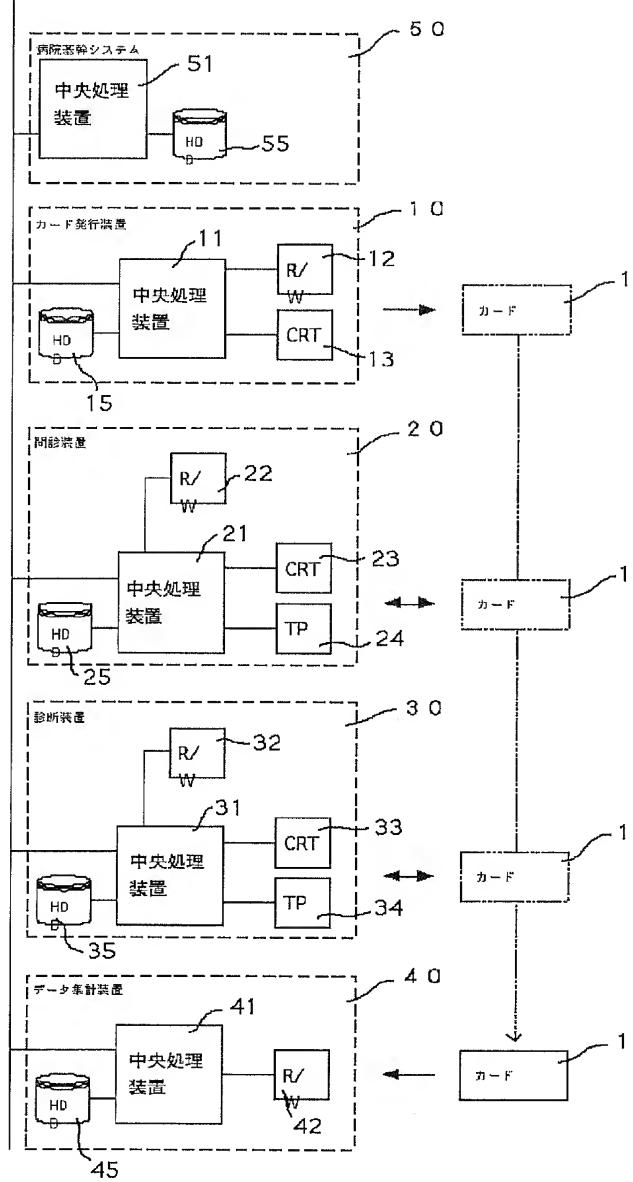
[Drawing 4]



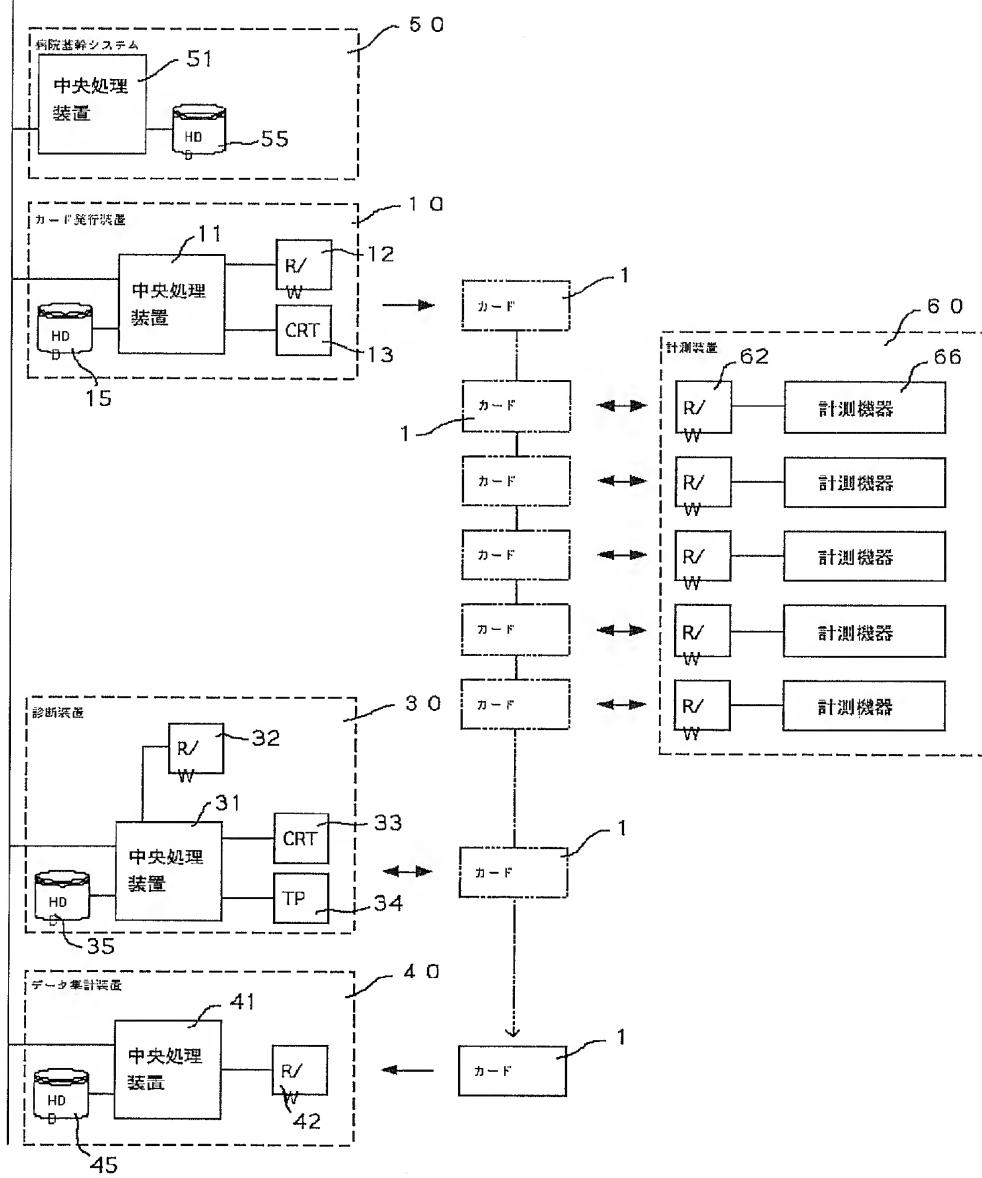
[Drawing 6]



[Drawing 7]



[Drawing 8]



[Drawing 9]